

ABSTRACT

An organic electrolyte capacitor having a high energy density and a high power and having a high capacitance even at -20°C is provided.

According to the organic electrolyte capacitor of the present invention, an organic electrolyte capacitor having a high discharge capacity even at a low temperature state as low as -20°C while having a high voltage and a high energy density can be attained in an organic electrolyte capacitor having a positive electrode, a negative electrode, and an electrolyte capable of transporting lithium ions, in which the positive electrode can reversibly support lithium ions and anions, and the negative electrode can reversibly support the lithium ions by using a mesopored carbon material having a pore volume of 0.10 ml/g or more for pore diameter of 3 nm or larger.